START

Department of Energy
Richland Field Office
P.O. Box 550
Richland, Washington 99352

9305709

93-RPS-285

AUG 24 1993

Ms. Dru Butler, Program Manager
Nuclear and Mixed Waste Management
State of Washington
Department of Ecology
P.O. Box 47600
Olympia, Washington 98504-7600

Dear Ms. Butler:

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION FORM 3, REVISION 1, FOR THE 207-A RETENTION BASIN (WA78900008967) (TSD: S-2-7)

Enclosed is the Hanford Facility Dangerous Waste Part A Permit Application (Part A) Form 3, Revision 1, for the 207-A South Retention Basin (207-A Basin). The 207-A Basin is located in the 200 East Area of the Hanford Facility and was used for interim storage of process condensate from the 242-A Evaporator before transfer to the 216-A-37-1 Crib.

The Part A has been revised to add Dangerous Waste Codes F001 (1,1,1-Trichloroethane), F002 (methylene chloride), F004 (cresylic acid), and F005 (methyl ethyl ketone). The addition of Dangerous Waste Codes F001, F002, and F004 is based on information indicating the presence of spent halogenated and nonhalogenated solvents from crane decontamination operations at B Plant and decontamination operations at T Plant. The addition of Dangerous Waste Code F005 is based on information indicating the presence of spent nonhalogenated solvents in the effluent received by the 207-A Basin from the 242-A Evaporator. These dangerous waste codes were added in compliance with the Washington Administrative Code 173-303-805. This regulation requires submittal of a revised Part A that includes any previously unidentified dangerous waste that might be treated, stored, or disposed of at a treatment, storage, and/or disposal unit with interim status.

Should you have any questions regarding the 207-A basin Part A, Revision 1, please contact Mr. C. E. Clark of the U.S. Department of Energy, Richland Operations Office on (509) 376-9333 or Ms. S. M. Price of the Westinghouse Hanford Company on (509) 376-1653.

Sincerely,

Robert G. Holt

Robert G. Holt, Acting Program Manager
Office of Environmental Assurance,
Permits, and Policy
DOE Richland Operations Office

EAP:RNK

R E Lerch

R. E. Lerch, Deputy Director
Restoration and Remediation
Westinghouse Hanford Company

Enclosure:

cc w/o enclosure:

[redacted]
G. W. Jackson, WHC
R. E. Lerch, WHC
M. A. Payne, WHC
G. C. Hofer, EPA
D. R. Sherwood, EPA
D. L. Duncan, EPA
T. M. Michelena, Ecology
D. L. Nylander, Ecology
Administrative Records, H6-08, w/encl.

207-A SOUTH RETENTION BASIN PART A, FORM 3, REVISION EXPLANATION

This portion of the Hanford Facility Dangerous Waste Part A Permit Application (Part A) consists of a Form 3, Revision 1, which describes the 207-A South Retention Basin (207-A Basin) in general terms.

The 207-A Basin Part A, Form 3, has been revised to add Dangerous Waste Codes F001 (1,1,1-Trichloroethane), F002 (methylene chloride), F004 (cresylic acid), and F005 (methyl ethyl ketone). The addition of Dangerous Waste Codes F001, F002, and F004 is based on information indicating the presence of spent halogenated and nonhalogenated solvents from crane decontamination operations at B Plant and decontamination operations at T Plant. The addition of Dangerous Waste Code F005 is based on information indicating the presence of spent nonhalogenated solvents in the effluent received by the 207-A Basin from the 242-A Evaporator. These dangerous waste codes were added in compliance with the Washington Administrative Code (WAC) 173-303. This regulation requires submittal of a revised Part A that includes any previously unidentified dangerous waste that might be treated, stored, or disposed of at a treatment, storage, and/or disposal unit with interim status.

Section I — U.S. Environmental Protection Agency/State Identification Number - No change.

Section II — First or Revised Application - This section identifies whether this is a first application for a new facility or an existing facility, or a revised application for a facility having either interim status or a final permit. The "X" has been moved from Block A.1., "First Application," to Block B.1., "Revised Application," to indicate that this is a revised application.

Section III — Processes - Codes and Design Capacities - This section gives the process codes and the process design capacities for the 207-A Basin. Blocks A. through B.2. have not been changed. Section III.C., "Processes," has been revised to more accurately describe the processes involved at the 207-A Basin.

Section IV — Description of Dangerous Waste - This section describes the waste that is stored at the 207-A Basin. In Block A., Dangerous Waste Codes F001, F002, F004, and F005 have been added in accordance with WAC 173-303. Table 1 of this explanation provides the dangerous waste code numbers and description of chemical constituents. Blocks B. through D.1. have not been changed. Block D.2., "Process Description," has been revised to include the words "Surface Impoundment," to better describe the type of storage provided by the 207-A Basin. Section IV.E., "Description of Dangerous Waste," has been revised to more accurately describe the 207-A Basin.

Section V — Facility Drawings - The 207-A Basin drawing has been updated.

Section VI — Photographs - The 207-A Basin photograph has been updated.

Section VII — Facility Geographic Location - No change.

Section VIII — Facility Owner - No change.

Section IX — Owner Certification - The certification is signed by the Manager, U.S. Department of Energy, Richland Operations Office (RL).

The Manager of RL was changed from Michael J. Lawrence to John D. Wagoner.

Section X — Operator Certification - An attachment is provided to the Form 3 to be signed by the Manager, RL as Owner/Operator and the President, Westinghouse Hanford Company (WHC) as Co-operator. These signatures certify management's belief that the submitted information is true, accurate, and complete.

The Manager of RL was changed from Michael J. Lawrence to John D. Wagoner.

The President of WHC was changed from John E. Nolan to Thomas M. Anderson.

TABLE 1

DANGEROUS WASTE IDENTIFICATION NUMBERS

ADDED PER WAC 173-303

PART A, SECTION IV

Dangerous Waste Code	Description of Chemical Constituent
F001	Spent halogenated solvents (e.g., 1,1,1-Trichloroethane)
F002	Spent halogenated solvents (e.g., methylene chloride)
F004	Spent nonhalogenated solvents (e.g., cresylic acid)
F005	Spent nonhalogenated solvents (e.g., methyl ethyl ketone)

ENCLOSURE

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e., 12 character/inch).

FORM 3

DANGEROUS WASTE PERMIT APPLICATION

1. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED *(mo., day, & yr.)*	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

FOR EXISTING FACILITIES, PROVIDE THE DATE *(mo., day, & yr.)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

MO.	DAY	YR.
0 3	1 8	7 7

☐ 2. NEW FACILITY *(Complete item below)*

FOR NEW FACILITIES, PROVIDE THE DATE *(mo., day, & yr)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

MO.	DAY	YR.

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

III. PROCESSES - CODES AND CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the *(Section III-C)*.

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D80	GALLONS OR LITERS
LANDFILL	D81	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D82	*ACRES OR HECTARES*
OCEAN DISPOSAL	D83	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING SECTION III *(shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons.* The facility also has an incinerator that can burn up to 20 gallons per hour.

LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY 1. AMOUNT *(specify)*	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE *(enter code)*	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY 1. AMOUNT *(specify)*	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE *(enter code)*	FOR OFFICIAL USE ONLY
X-1	S 0 2	600	G		5				
X-2	T 0 3	20	E		6				
1	S 0 4	210,000	G		7				
2					8				
3					9				
4					10				

Continued from the front.

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

S04

The 207-A South Retention Basin (207-A Basin), which is also known as the Process Condensate (PC) Basins 1, 2, and 3 (i.e., PC-1, PC-2, and PC-3), began operation in March 1977. The 207-A Basin consists of three concrete cells (S04), each with a nominal 70,000 gallon (265,000 liter) capacity for a total combined capacity of a nominal 210,000 gallons (795,000 liters). All three cells are coated to prevent constituents from penetrating the concrete. The 207-A Basin was used for the interim storage of the 242-A Evaporator process condensate to allow for sampling and analysis before the condensate was discharged to the 216-A-37-1 Crib for final disposition. Discharge of 242-A Evaporator process condensate to the 207-A Basin was terminated on April 12, 1989, when it was determined that the 242-A Evaporator process condensate contained or could have contained mixed waste regulated under Washington Administrative Code 173-303. The 207-A Basin will remain out of service and will be closed under interim status. A closure plan for the decommissioning and final disposition of this storage unit is planned.

IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER - Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.

B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2			T 0 3 D 8 0	*Included with above*

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*

W	A	7	8	9	0	0	0	8	9	6	7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(If a code is not entered in D(1))*
1	F001	1,749,300	P	S04	Storage - Surface Impoundment
2	F002				
3	F003				
4	F004				
5	F005				
6	WT02				Included With Above
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

CONTINUE ON REVERSE

Continued from the front.

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The 207-A Basin was taken out of service on April 12, 1989, and no longer receives 242-A Evaporator process condensate. A closure plan for the decommissioning and final disposition of this storage unit is planned. A description of the dangerous waste temporarily stored at the 207-A Basin is as follows.

The 242-A Evaporator process condensate is regulated as a mixed waste due to the presence of spent halogenated and nonhalogenated solvents (F001, F002, F003, F004, and F005), and for the toxicity of ammonia (WT02, toxic state-only dangerous waste). The Estimated Annual Quantity of Dangerous Waste (item IV.B) of 1,749,300 pounds (793,482 kilograms) per year represents the maximum operating capacity of the 207-A Basin.

9313025.0106

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION This information is provided on the attached drawings and photos.

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*

VIII. FACILITY OWNER

[X] **A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.**

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office	John D. Wagoner	8/23/93

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
SEE ATTACHMENT		

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

John D. Wagoner 8/23/93

Owner/Operator
John D. Wagoner, Manager
U.S. Department of Energy
Richland Operations Office

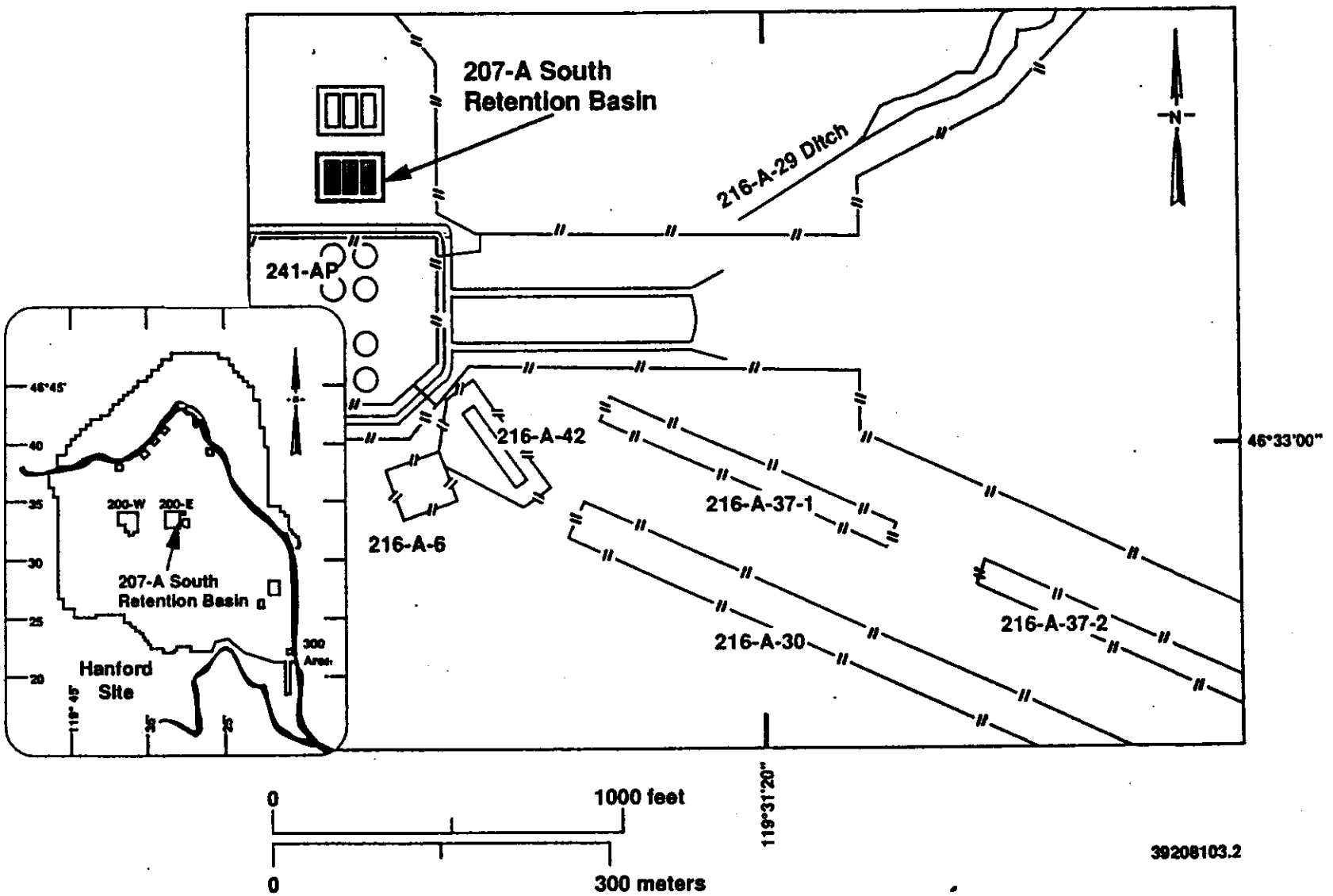
Date

Thomas M. Anderson 7/1/93

Co-operator
Thomas M. Anderson, President
Westinghouse Hanford Company

Date

207-A South Retention Basin
Site Plan



207-A SOUTH RETENTION BASIN

46°33'09"
119°30'52.2"

93060005-12CN
(PHOTO TAKEN 1993)

CORRESPONDENCE DISTRIBUTION COVERSHEET

Author	Addressee	Correspondence No.
R. G. Holt, RL R. E. Lerch, WHC (D. G. Saueressig, WHC)	D. Butler, Ecology	Incoming 9305709 Xref 9352661D

Subject: HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION FORM 3, REVISION 1, FOR THE 207-A SOUTH RETENTION BASIN (WA7890008967) (TSD: S-2-7)

INTERNAL DISTRIBUTION

Approval	Date	Name	Location	w/att
		Correspondence Control	A3-01	X
		B. A. Austin	B2-35	
		T. D. Blankenship	B1-58	
		R. C. Bowman	H6-24	X
		F. E. Boyd	S4-55	
		V. C. Boyles	R1-49	
		G. D. Carpenter	H6-30	
		G. M. Crummel	R1-51	
		L. P. Diediker	T1-30	
		C. K. DiSibio	B3-15	
		C. W. Dunbar	R1-30	
		G. L. Dunford	R1-51	
		B. G. Erlandson	H6-21	
		D. G. Farwick	H4-16	
		S. D. Godfrey	R1-51	
		R. D. Gustavson	R1-51	X
		D. G. Hamrick	R1-51	
		P. Hinojosa	T4-01	
		G. W. Jackson, Assignee	H6-21	
		R. W. Jacobson	S5-03	
		J. R. Kasper	R2-50	
		R. J. Landon	H6-22	
		R. E. Lerch	B3-63	
		C. M. Loll	R1-51	
		P. J. Mackey	B3-15	
		H. E. McGuire, Level 1	B3-63	
		G. J. Miskho	R2-50	
		R. J. Nicklas	R1-43	
		M. A. Payne	R2-50	
		S. M. Price	H6-23	
		D. G. Saueressig	H6-24	X
		C. M. Smith	H6-30	
		J. F. Williams Jr.	H6-24	
		B. D. Williamson	B3-15	
		EPIC	H6-08	X
		RCRA File/GHL	H6-23	X
		DGS File/LB	H6-24	